

```

AAAAAAAAA  NNN      NNN      AAAAAAAAA  LLL      YYY      YYY      ZZZZZZZZZZZZZZZ
AAAAAAAAA  NNN      NNN      AAAAAAAAA  LLL      YYY      YYY      ZZZZZZZZZZZZZZZ
AAAAAAAAA  NNN      NNN      AAAAAAAAA  LLL      YYY      YYY      ZZZZZZZZZZZZZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNNNNN   NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNNNNN   NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNNNNN   NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN  NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN  NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN  NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAAAAAAAAAAAAAAA  NNN      NNNNNN  AAAAAAAAAAAAAAAAA  LLL      YYY      YYY      ZZZ
AAAAAAAAAAAAAAAA  NNN      NNNNNN  AAAAAAAAAAAAAAAAA  LLL      YYY      YYY      ZZZ
AAAAAAAAAAAAAAAA  NNN      NNNNNN  AAAAAAAAAAAAAAAAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLL      YYY      YYY      ZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLLLLLLLLLLLLLLLL  YYY      ZZZZZZZZZZZZZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLLLLLLLLLLLLLLLL  YYY      ZZZZZZZZZZZZZZZ
AAA        AAA  NNN      NNN      AAA        AAA  LLLLLLLLLLLLLLLLL  YYY      ZZZZZZZZZZZZZZZ

```

```

EEEEEEEEEE XX      XX EEEEEEEEEEE FFFFFFFFFF IIIIII XX      XX UU      UU PPPPPPPP
EEEEEEEEEE XX      XX EEEEEEEEEEE FFFFFFFFFF IIIIII XX      XX UU      UU PPPPPPPP
EE          XX      XX EE          FF          II      XX      XX UU      UU PP      PP
EE          XX      XX EE          FF          II      XX      XX UU      UU PP      PP
EEEEEEEEEE      XX      XX EEEEEEEEE FFFFFFFF II      XX      XX UU      UU PP      PP
EEEEEEEEEE      XX      XX EEEEEEEEE FFFFFFFF II      XX      XX UU      UU PP      PP
EE          XX      XX EE          FF          II      XX      XX UU      UU PPPPPPPP
EE          XX      XX EE          FF          II      XX      XX UU      UU PPPPPPPP
EE          XX      XX EE          FF          II      XX      XX UU      UU PP      PP
EE          XX      XX EE          FF          II      XX      XX UU      UU PP      PP
EEEEEEEEEE XX      XX EEEEEEEEEEE FF          IIIIII XX      XX UUUUUUUUUU PP      PP
EEEEEEEEEE XX      XX EEEEEEEEEEE FF          IIIIII XX      XX UUUUUUUUUU PP      PP

```

```

LL          IIIIII SSSSSSSS
LL          IIIIII SSSSSSSS
LL          II      SS
LL          II      SS
LL          II      SS
LL          II      SS
LL          II      SSSSSS
LL          II      SSSSSS
LL          II      SS
LL          II      SS
LL          II      SS
LL          II      SS
LLLLLLLLLL IIIIII SSSSSSSS
LLLLLLLLLL IIIIII SSSSSSSS

```

```
0001 0 %title 'EXEFIXUP - Analyze Fixup Info'
0002 0
0003 1 module exefixup (
0004 1 ident='V04-000') = begin
0005 1
0006 1 *****
0007 1 *
0008 1 * COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
0009 1 * DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.
0010 1 * ALL RIGHTS RESERVED.
0011 1 *
0012 1 * THIS SOFTWARE IS FURNISHED UNDER A LICENSE AND MAY BE USED AND COPIED
0013 1 * ONLY IN ACCORDANCE WITH THE TERMS OF SUCH LICENSE AND WITH THE
0014 1 * INCLUSION OF THE ABOVE COPYRIGHT NOTICE. THIS SOFTWARE OR ANY OTHER
0015 1 * COPIES THEREOF MAY NOT BE PROVIDED OR OTHERWISE MADE AVAILABLE TO ANY
0016 1 * OTHER PERSON. NO TITLE TO AND OWNERSHIP OF THE SOFTWARE IS HEREBY
0017 1 * TRANSFERRED.
0018 1 *
0019 1 * THE INFORMATION IN THIS SOFTWARE IS SUBJECT TO CHANGE WITHOUT NOTICE
0020 1 * AND SHOULD NOT BE CONSTRUED AS A COMMITMENT BY DIGITAL EQUIPMENT
0021 1 * CORPORATION.
0022 1 *
0023 1 * DIGITAL ASSUMES NO RESPONSIBILITY FOR THE USE OR RELIABILITY OF ITS
0024 1 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0025 1 *
0026 1 *
0027 1 *****
0028 1
0029 1
0030 1 ++
0031 1 Facility: VAX/VMS Analyze Facility, Analyze Image Fixup Info
0032 1
0033 1 Abstract: This module is responsible for analyzing the fixup info
0034 1 section of an image. This section contains info necessary
0035 1 for the linking and activation of shareable images.
0036 1
0037 1
0038 1 Environment:
0039 1
0040 1 Author: Paul C. Anagnostopoulos, Creation Date: 20 April 1981
0041 1
0042 1 Modified By:
0043 1
0044 1 V03-003 MCN0167 Maria del C. Nasr 02-May-1984
0045 1 Get the length of the fixup section cells only once,
0046 1 for the first one, and use this value for all the cells.
0047 1
0048 1 V03-002 MCN0158 Maria del C. Nasr 22-Mar-1984
0049 1 Use SHL$C_MAXNAMLNG for size of shareable image name
0050 1 to pass as a parameter to ANL$CHECK_SYMBOL. Eliminate
0051 1 declaration of local loop counter I. Determine the
0052 1 length to add for the fixup section, to support new
0053 1 length.
0054 1
0055 1 V03-001 PCA1011 Paul C. Anagnostopoulos 1-Apr-1983
0056 1 Change the message prefix to ANLOBJ$, to ensure that
0057 1 message symbols are unique across all ANALYZEs. This
```


EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info

E 13
15-Sep-1984 23:47:03
14-Sep-1984 11:52:43

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]EXEFIXUP.B32;1

Page 2
(1)

: 58
: 59

0058 1 :
0059 1 :--

is necessitated by the new merged message files.

EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info
Module Declarations

F 13
15-Sep-1984 23:47:03
14-Sep-1984 11:52:43

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]EXEFIXUP.B32;1

Page 3
(2)

```
.. 61      0060 1 %sbttl 'Module Declarations'
.. 62      0061 1
.. 63      0062 1  Libraries and Requires:
.. 64      0063 1
.. 65      0064 1
.. 66      0065 1  library 'lib';
.. 67      0066 1  require 'objexereq';
.. 68      0502 1
.. 69      0503 1
.. 70      0504 1  Table of Contents:
.. 71      0505 1
.. 72      0506 1
.. 73      0507 1  forward routine
.. 74      0508 1      anl$image_fixup_info;
.. 75      0509 1
.. 76      0510 1
.. 77      0511 1  External References:
.. 78      0512 1
.. 79      0513 1
.. 80      0514 1  external routine
.. 81      0515 1      anl$check_flags,
.. 82      0516 1      anl$check_symbol,
.. 83      0517 1      anl$format_error,
.. 84      0518 1      anl$format_flags,
.. 85      0519 1      anl$format_line,
.. 86      0520 1      anl$format_protection,
.. 87      0521 1      anl$interact,
.. 88      0522 1      anl$map_fixup_section,
.. 89      0523 1      anl$report_page,
.. 90      0524 1      anl$report_line;
.. 91      0525 1
.. 92      0526 1  external
.. 93      0527 1      anl$gb_interactive: byte;
.. 94      0528 1
.. 95      0529 1
.. 96      0530 1  Own Variables:
.. 97      0531 1
```

```
99 0532 1 %sbttl 'ANL$IMAGE_FIXUP_INFO - Analyze Fixup Info'
100 0533 1 ++
101 0534 1 Functional Description:
102 0535 1 This routine is responsible for the analysis of the fixup info
103 0536 1 section of a shareable image.
104 0537 1
105 0538 1 Formal Parameters:
106 0539 1 image_base Starting address of the complete image.
107 0540 1 fixup_size Number of blocks of fixup info.
108 0541 1 fixup_vbn VBN of fixup info.
109 0542 1
110 0543 1 Implicit Inputs:
111 0544 1 global data
112 0545 1
113 0546 1 Implicit Outputs:
114 0547 1 global data
115 0548 1
116 0549 1 Returned Value:
117 0550 1 If interactive session: true if we are to continue, false otherwise.
118 0551 1
119 0552 1 Side Effects:
120 0553 1
121 0554 1 --
122 0555 1
123 0556 1
124 0557 2 global routine anl$image_fixup_info(image_base,fixup_size,fixup_vbn) = begin
125 0558 2
126 0559 2 own
127 0560 2 flags_def: vector[2,long] initial(
128 0561 2 0,
129 0562 2 uplit byte (%ascic 'IAF$V_SHR')));
130 0563 2
131 0564 2 local
132 0565 2 fp: ref block[,byte],
133 0566 2 end_ptr: ref block[,byte],
134 0567 2 sp: ref block[,byte],
135 0568 2 count: long,
136 0569 2 long_array: vector[4,long];
137 0570 2
138 0571 2
139 0572 2 ! We begin with a nice heading on a new page.
140 0573 2
141 0574 2 anl$report_page();
142 0575 2 anl$format_line(0,0,anlobj$_exefixup);
143 0576 2 anl$report_line(-1);
144 0577 2 anl$report_line(-1);
145 0578 2
146 0579 2 ! If the fixup size and VBN are zero, then there was no fixup section.
147 0580 2 ! Tell the user and quit.
148 0581 2
149 0582 2 if .fixup_size equl 0 then (
150 0583 2 anl$format_line(0,1,anlobj$_exefixupnone);
151 0584 2 return true;
152 0585 2 );
153 0586 2
154 0587 2 ! Map the fixup section into memory. If the routine returns zero, then
155 0588 2 ! we couldn't, so tell the user.
```

```

: 156      0589      2
: 157      0590      2 fp = anl$map_fixup_section(.fixup_size,.fixup_vbn);
: 158      0591      2 if .fp eq 0 then(
: 159      0592      2     anl$format_error(anlobj$_exebadfixupvbn,.fixup_vbn,.fixup_size);
: 160      0593      2     return;
: 161      0594      2 );
: 162      0595      2
: 163      0596      2 ! Set up a pointer to the end of the section so we can test for it.
: 164      0597      2
: 165      0598      2 end_ptr = .fp + .fixup_size*512;
: 166      0599      2
: 167      0600      2 ! Now we will format the fixed part of the fixup info. The only items
: 168      0601      2 ! we need to bother with are the flags, shareable image count,
: 169      0602      2 ! and extra allowed count.
: 170      0603      2
: 171      0604      2 anl$format_line(3,1,anlobj$_exefixfixed);
: 172      0605      2 anl$report_line(-1);
: 173      0606      2 anl$format_flags(2,anlobj$_exefixflags,.fp[iaf$_flags],flags_def);
: 174      0607      2 anl$check_flags(.fp[iaf$_flags],flags_def);
: 175      0608      2 anl$format_line(0,2,anlobj$_exefixcount,.fp[iaf$_shrimcnt]);
: 176      0609      2 anl$format_line(0,2,anlobj$_exefixextra,.fp[iaf$_shlextra]);
: 177      0610      2
: 178      0611      2 ! If this is an interactive session, then let's see what the user wants to do.
: 179      0612      2
: 180      0613      2 if .anl$gb_interactive then
: 181      0614      2     if not anl$interact() then
: 182      0615      2         return false;
```



```
184 0616 2 ! Now we are going to print the shareable image list. This involves
185 0617 2 ! only the name of the image. And the first list entry has no name,
186 0618 2 ! because it refers to this image.
187 0619 2
188 0620 2 anl$report_line(-1);
189 0621 2 anl$format_line(3,1,anlobj$_exefixlist);
190 0622 2 anl$report_line(-1);
191 0623 2
192 0624 2 sp = .fp + .fp[iaf$_shlstoff];
193 0625 2
194 0626 2 begin
195 0627 2
196 0628 2 local
197 0629 2     cell_size;
198 0630 2
199 0631 2 If .sp[shl$b_shl_size] neq 0
200 0632 2 then
201 0633 2     cell_size = .sp[shl$b_shl_size]
202 0634 2 else
203 0635 2     cell_size = shl$c_old_shl_size;
204 0636 2
205 0637 2 incru i from 0 to .fp[iaf$_shrimcnt]-1 do (
206 0638 2     local
207 0639 2         name_dsc: descriptor;
208 0640 2
209 0641 2     if .i eq 0 then
210 0642 2         anl$format_line(0,2,anlobj$_exefixname0,.i)
211 0643 2     else (
212 0644 2         anl$format_line(0,2,anlobj$_exefixname,.i,sp[shl$t_imgnam]);
213 0645 2         build_descriptor(name_dsc,.sp[shl$b_namlng],sp[shl$t_imgnam]+1);
214 0646 2         anl$check_symbol(name_dsc, shl$c_maxnamlng);
215 0647 2     );
216 0648 2     sp = .sp + .cell_size;
217 0649 2 );
218 0650 2 end;
219 0651 2
220 0652 2 ! If this is an interactive session, then let's see what the user wants to do.
221 0653 2
222 0654 2 if .anl$gb_interactive then
223 0655 2     if not anl$interact() then
224 0656 2         return false;
```



```
226 0657 2 ! Now we will analyze the external address data (G^ fixups). For each
227 0658 2 ! shareable image with such fixups, we have a fixup count, the image
228 0659 2 ! number, and a list of references.
229 0660 2
230 0661 2
231 0662 2 if .fp[iaf$l_g_fixoff] nequ 0 then (
232 0663 2
233 0664 2     anl$report_line(-1);
234 0665 2     anl$format_line(3,1,anlobj$exefixg);
235 0666 2     sp = .fp + .fp[iaf$l_g_fixoff];
236 0667 2
237 0668 2     ! Loop until we get to the end of the data.
238 0669 2
239 0670 2     while .sp[0,0,32,0] nequ 0 do (
240 0671 2
241 0672 2         ! If we have run off the end of the section, then the
242 0673 2         ! end of data marker is missing.
243 0674 2
244 0675 2         if .sp geqa .end_ptr then (
245 0676 2             anl$format_error(anlobj$exebadfixupend);
246 0677 2         exitloop;
247 0678 2         );
248 0679 2
249 0680 2         ! Format a line with the count and image number.
250 0681 2
251 0682 2         count = .sp[0,0,32,0];
252 0683 2         sp = .sp + 4;
253 0684 2         anl$report_line(-1);
254 0685 2         anl$format_line(2,2,anlobj$exefixgimage,.count,.sp[0,0,32,0]);
255 0686 2         sp = .sp + 4;
256 0687 2
257 0688 2         ! Loop through the references and format them 4 to a line.
258 0689 2
259 0690 2         incru i from 0 to .count-1 do (
260 0691 2             long_array[i mod 4] = .sp[0,0,32,0];
261 0692 2             sp = .sp + 4;
262 0693 2
263 0694 2             if .i mod 4 eglu 3 or .i eglu .count-1 then
264 0695 2                 anl$format_line(0,3,anlobj$exefixgline,.i mod 4 + 1,
265 0696 2                     .long_array[0],.long_array[1],.long_array[2],.long_array[3])
266 0697 2             );
267 0698 2         );
268 0699 2
269 0700 2         ! If this is an interactive session, then let's see what the user
270 0701 2         ! wants to do.
271 0702 2
272 0703 2         if .anl$gb_interactive then
273 0704 2             if not anl$interact() then
274 0705 2                 return false;
275 0706 2 );
```

```
277 0707 2 ! Now we will analyze the internal address data (.ADDRESS fixups). For each
278 0708 2 ! shareable image with such fixups, we have a fixup count, the image
279 0709 2 ! number, and a list of offsets.
280 0710 2
281 0711 2 if .fp[iaf$l_dotadroff] nequ 0 then (
282 0712 2
283 0713 2 ! Put out a heading line including the base address of the image,
284 0714 2 ! since the address are relative to it.
285 0715 2
286 0716 2 anl$report_line(-1);
287 0717 2 anl$format_line(3,1,anlobj$_exefixa,.image_base);
288 0718 2 sp = .fp + .fp[iaf$l_dotadroff];
289 0719 2
290 0720 2 ! Loop until we get to the end of the data.
291 0721 2
292 0722 2 while .sp[0,0,32,0] nequ 0 do (
293 0723 2
294 0724 2 ! If we have run off the end of the section, then the
295 0725 2 ! end of data marker is missing.
296 0726 2
297 0727 2 if .sp geqa .end_ptr then (
298 0728 2 anl$format_error(anlobj$_exebadfixupend);
299 0729 2 exitloop;
300 0730 2 );
301 0731 2
302 0732 2 ! Format a line with the count and image number.
303 0733 2
304 0734 2 count = .sp[0,0,32,0];
305 0735 2 sp = .sp + 4;
306 0736 2 anl$report_line(-1);
307 0737 2 anl$format_line(2,2,anlobj$_exefixaimage,.count,.sp[0,0,32,0]);
308 0738 2 sp = .sp + 4;
309 0739 2
310 0740 2 ! Loop through the references and format them 4 to a line.
311 0741 2
312 0742 2 incru i from 0 to .count-1 do (
313 0743 2 long_array[i mod 4] = .sp[0,0,32,0];
314 0744 2 sp = .sp + 4;
315 0745 2
316 0746 2 if .i mod 4 eglu 3 or .i eglu .count-1 then
317 0747 2 anl$format_line(0,3,anlobj$_exefixaline,.i mod 4 + 1,
318 0748 2 .long_array[0]..long_array[1]..long_array[2]..long_array[3])
319 0749 2 );
320 0750 2 );
321 0751 2
322 0752 2 ! If this is an interactive session, then let's see what the user
323 0753 2 ! wants to do.
324 0754 2
325 0755 2 if .anl$gb_interactive then
326 0756 2 if not anl$interact() then
327 0757 2 return false;
328 0758 2 );
```

```
330 0759 2 ! Now we will analyze the section protection change data. This consists
331 0760 2 ! of a count of changes, followed by the changes. Each change specifies
332 0761 2 ! the address and extent of the section, along with its new protection.
333 0762 2
334 0763 2 if .fp[iaf$l_chgploff] nequ 0 then (
335 0764 2
336 0765 2 ! Put out a heading line including the base address of the image,
337 0766 2 ! since the address are relative to it.
338 0767 2
339 0768 2 anl$report_line(-1);
340 0769 2 anl$format_line(3,1,anlobj$_exefixp,.image_base);
341 0770 2 sp = .fp + .fp[iaf$l_chgploff];
342 0771 2 count = .sp[0,0,32,0];
343 0772 2 sp = .sp + 4;
344 0773 2
345 0774 2 ! Now we will loop through the change entries.
346 0775 2
347 0776 2 incru i from 1 to .count do (
348 0777 2
349 0778 2 ! If we have run off the end of the section, then the
350 0779 2 ! count is screwed up.
351 0780 2
352 0781 2 if .sp geqa .end_ptr then (
353 0782 2 anl$format_error(anlobj$_exebadfixupend);
354 0783 2 exitloop;
355 0784 2 );
356 0785 2
357 0786 2 ! Format the information about this change.
358 0787 2
359 0788 2 anl$report_line(-1);
360 0789 2 anl$format_line(2,2,anlobj$_exefixpsect,.sp[icp$l_baseva],.sp[icp$w_npages]);
361 0790 2 anl$format_protection(2,.sp[icp$w_newprt]);
362 0791 2
363 0792 2 ! Advance to the next change entry.
364 0793 2
365 0794 2 sp = .sp + 8;
366 0795 2 );
367 0796 2
368 0797 2 ! If this is an interactive session, then let's see what the user
369 0798 2 ! wants to do.
370 0799 2
371 0800 2 if .anl$gb_interactive then
372 0801 2 if not anl$interact() then
373 0802 2 return false;
374 0803 2 );
```


EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info
ANLSIMAGE_FIXUP_INFO - Analyze Fixup Info

M 13
15-Sep-1984 23:47:03
14-Sep-1984 11:52:43

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]EXEFIXUP.B32:1

Page 10
(8)

```
: 376      0804 2 ! We are all done. Free up the memory mapping the fixup section.
: 377      0805 2
: 378      0806 2 anl$map_fixup_section();
: 379      0807 2
: 380      0808 2 return true;
: 381      0809 2
: 382      0810 1 end;
: INFO#212      L1:0592
: Null expression appears in value-required context
```

.TITLE EXEFIXUP EXEFIXUP - Analyze Fixup Info
.IDENT \V04-000\

.PSECT \$PLITS,NOWRT,NOEXE,2

52 48 53 5F 56 24 46 41 49 09 00000 P.AAA: .ASCII <9>\IAFSV_SHR\ ;

.PSECT \$OWNS,NOEXE,2

00000000 00000 FLAGS_DEF:

00000000' 00004 .LONG 0
.ADDRESS P.AAA :

.EXTRN ANLOBS\$OK, ANLOBS\$ANYTHING
.EXTRN ANLOBS\$DATATYPE
.EXTRN ANLOBS\$ERRORCOUNT
.EXTRN ANLOBS\$ERRORNONE
.EXTRN ANLOBS\$ERRORS, ANLOBS\$EXEFIXA
.EXTRN ANLOBS\$EXEFIXAIMAGE
.EXTRN ANLOBS\$EXEFIXALINE
.EXTRN ANLOBS\$EXEFIXCOUNT
.EXTRN ANLOBS\$EXEFIXEXTRA
.EXTRN ANLOBS\$EXEFIXFIXED
.EXTRN ANLOBS\$EXEFIXFLAGS
.EXTRN ANLOBS\$EXEFIXG
.EXTRN ANLOBS\$EXEFIXGIMAGE
.EXTRN ANLOBS\$EXEFIXGLINE
.EXTRN ANLOBS\$EXEFIXLIST
.EXTRN ANLOBS\$EXEFIXNAME
.EXTRN ANLOBS\$EXEFIXNAME0
.EXTRN ANLOBS\$EXEFIXP
.EXTRN ANLOBS\$EXEFIXPSECT
.EXTRN ANLOBS\$EXEFIXUP
.EXTRN ANLOBS\$EXEFIXUPNONE
.EXTRN ANLOBS\$EXEGST, ANLOBS\$EXEHDR
.EXTRN ANLOBS\$EXEHDRACTIVE
.EXTRN ANLOBS\$EXEHDRBLKCOUNT
.EXTRN ANLOBS\$EXEHDRCHANCOUNT
.EXTRN ANLOBS\$EXEHDRCHANDEF
.EXTRN ANLOBS\$EXEHDRDECECO
.EXTRN ANLOBS\$EXEHDRDMT
.EXTRN ANLOBS\$EXEHDRDST
.EXTRN ANLOBS\$EXEHDRFILEID
.EXTRN ANLOBS\$EXEHDRFIXED
.EXTRN ANLOBS\$EXEHDRFLAGS
.EXTRN ANLOBS\$EXEHDRGBLIDENT

EXFIXUP
V04-000

```

EXEFIXUP - Analyze Fixup Info
ANLSIMAGE_FIXUP_INFO - Analyze Fixup Info

```

N 13
15-Sep-1984 23:47:03
14-Sep-1984 11:52:43

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]EXEFIXUP.B32;1

Page 11
(8)

```
.EXTRN ANLOBJ$_EXEHDRGST
.EXTRN ANLOBJ$_EXEHDRIDENT
.EXTRN ANLOBJ$_EXEHDRIMAGEID
.EXTRN ANLOBJ$_EXEHDRISD
.EXTRN ANLOBJ$_EXEHDRISDBASE
.EXTRN ANLOBJ$_EXEHDRISDCOUNT
.EXTRN ANLOBJ$_EXEHDRISDFLAGS
.EXTRN ANLOBJ$_EXEHDRISDGBLNAM
.EXTRN ANLOBJ$_EXEHDRISDNUM
.EXTRN ANLOBJ$_EXEHDRISDPFCDEF
.EXTRN ANLOBJ$_EXEHDRISDPFCsiz
.EXTRN ANLOBJ$_EXEHDRISDTYPE
.EXTRN ANLOBJ$_EXEHDRISDVBN
.EXTRN ANLOBJ$_EXEHDRLINKID
.EXTRN ANLOBJ$_EXEHDRMATCH
.EXTRN ANLOBJ$_EXEHDRNAME
.EXTRN ANLOBJ$_EXEHDRNOPATCH
.EXTRN ANLOBJ$_EXEHDRPAGECOUNT
.EXTRN ANLOBJ$_EXEHDRPAGEDEF
.EXTRN ANLOBJ$_EXEHDRPATCH
.EXTRN ANLOBJ$_EXEHDRPATCHDATE
.EXTRN ANLOBJ$_EXEHDRPRIV
.EXTRN ANLOBJ$_EXEHDRROPATCH
.EXTRN ANLOBJ$_EXEHDRRWPATCH
.EXTRN ANLOBJ$_EXEHDRSYMDBG
.EXTRN ANLOBJ$_EXEHDRSYSVER
.EXTRN ANLOBJ$_EXEHDRTEXTVBN
.EXTRN ANLOBJ$_EXEHDRTIME
.EXTRN ANLOBJ$_EXEHDRTYPEEXE
.EXTRN ANLOBJ$_EXEHDRTYPEELIM
.EXTRN ANLOBJ$_EXEHDRUSERECO
.EXTRN ANLOBJ$_EXEHDRXFER1
.EXTRN ANLOBJ$_EXEHDRXFER2
.EXTRN ANLOBJ$_EXEHDRXFER3
.EXTRN ANLOBJ$_EXEHDRHEADING
.EXTRN ANLOBJ$_EXEPATCH
.EXTRN ANLOBJ$_FLAG, ANLOBJ$_HEXDATA
.EXTRN ANLOBJ$_HEXHEADING1
.EXTRN ANLOBJ$_HEXHEADING2
.EXTRN ANLOBJ$_INDMSGSEC
.EXTRN ANLOBJ$_INTERACT
.EXTRN ANLOBJ$_MASK, ANLOBJ$_OBJCPRREC
.EXTRN ANLOBJ$_OBJDBGREC
.EXTRN ANLOBJ$_OBJENV, ANLOBJ$_OBJEOMFLAGS
.EXTRN ANLOBJ$_OBJEOMREC
.EXTRN ANLOBJ$_OBJEOMSEVABT
.EXTRN ANLOBJ$_OBJEOMSEVERR
.EXTRN ANLOBJ$_OBJEOMSEVIGN
.EXTRN ANLOBJ$_OBJEOMSEVRES
.EXTRN ANLOBJ$_OBJEOMSEVSUC
.EXTRN ANLOBJ$_OBJEOMSEVWRN
.EXTRN ANLOBJ$_OBJEOMWREC
.EXTRN ANLOBJ$_OBJFADPASSMECH
.FXTRN ANLOBJ$_OBJGSDENV
.EXTRN ANLOBJ$_OBJGSDENVFLAGS
.EXTRN ANLOBJ$_OBJGSDENVPAR
.EXTRN ANLOBJ$_OBJGSDDEPM
```

```
.EXTRN ANLOBS$_OBJGSDPEMW
.EXTRN ANLOBS$_OBJGSDIDC
.EXTRN ANLOBS$_OBJGSDIDCENT
.EXTRN ANLOBS$_OBJGSDIDCFLAGS
.EXTRN ANLOBS$_OBJGSDIDCMATCH
.EXTRN ANLOBS$_OBJGSDIDCOBJ
.EXTRN ANLOBS$_OBJGSDIDCVALA
.EXTRN ANLOBS$_OBJGSDIDCVALB
.EXTRN ANLOBS$_OBJGSDLEPM
.EXTRN ANLOBS$_OBJGSDLPRO
.EXTRN ANLOBS$_OBJGSDLSY
.EXTRN ANLOBS$_OBJGSDPRO
.EXTRN ANLOBS$_OBJGSDPROW
.EXTRN ANLOBS$_OBJGSDPSC
.EXTRN ANLOBS$_OBJGSDPSCALIGN
.EXTRN ANLOBS$_OBJGSDPSCALLOC
.EXTRN ANLOBS$_OBJGSDPSCBASE
.EXTRN ANLOBS$_OBJGSDPSCFLAGS
.EXTRN ANLOBS$_OBJGSDREC
.EXTRN ANLOBS$_OBJGSDSPSC
.EXTRN ANLOBS$_OBJGSDSYM
.EXTRN ANLOBS$_OBJGSDSYMW
.EXTRN ANLOBS$_OBJGTXREC
.EXTRN ANLOBS$_OBJHDRIGNREC
.EXTRN ANLOBS$_OBJHEADING
.EXTRN ANLOBS$_OBJLITINDEX
.EXTRN ANLOBS$_OBJLNKREC
.EXTRN ANLOBS$_OBJLNMREC
.EXTRN ANLOBS$_OBJMHDCREATE
.EXTRN ANLOBS$_OBJMHDNAME
.EXTRN ANLOBS$_OBJMHDPATCH
.EXTRN ANLOBS$_OBJMHDREC
.EXTRN ANLOBS$_OBJMHDRECSIZ
.EXTRN ANLOBS$_OBJMHDSTRLVL
.EXTRN ANLOBS$_OBJMHDVERSION
.EXTRN ANLOBS$_OBJMTCCORRECT
.EXTRN ANLOBS$_OBJMTCINPUT
.EXTRN ANLOBS$_OBJMTCNAME
.EXTRN ANLOBS$_OBJMTCREC
.EXTRN ANLOBS$_OBJMTCSEQNUM
.EXTRN ANLOBS$_OBJMTCUIC
.EXTRN ANLOBS$_OBJMTCVERSION
.EXTRN ANLOBS$_OBJMTCWHEN
.EXTRN ANLOBS$_OBJPROARGCOUNT
.EXTRN ANLOBS$_OBJPROARGNUM
.EXTRN ANLOBS$_OBJPSECT
.EXTRN ANLOBS$_OBJSRCREC
.EXTRN ANLOBS$_OBJSTATHEADING1
.EXTRN ANLOBS$_OBJSTATHEADING2
.EXTRN ANLOBS$_OBJSTATLINE
.EXTRN ANLOBS$_OBJSTATTOTAL
.EXTRN ANLOBS$_OBJSYMBOL
.EXTRN ANLOBS$_OBJSYMFLAGS
.EXTRN ANLOBS$_OBJTIRARGINDEX
.EXTRN ANLOBS$_OBJTIRCMD
.EXTRN ANLOBS$_OBJTIRCMDSTK
.EXTRN ANLOBS$_OBJBTREC
```



```
.EXTRN ANLOBS_OBJTIRREC
.EXTRN ANLOBS_OBJTIRSTOIM
.EXTRN ANLOBS_OBJTIRVIELD
.EXTRN ANLOBS_OBJTTLREC
.EXTRN ANLOBS_OBJVALUE
.EXTRN ANLOBS_OBJUVALUE
.EXTRN ANLOBS_PROTECTION
.EXTRN ANLOBS_SEVERITY
.EXTRN ANLOBS_TEXT, ANLOBS_TEXTHDR
.EXTRN ANLOBS_NOSUCHMOD
.EXTRN ANLOBS_BADDATE
.EXTRN ANLOBS_BADHDRBLKCOUNT
.EXTRN ANLOBS_BADSEVERITY
.EXTRN ANLOBS_BADSYMIST
.EXTRN ANLOBS_BADSYMCHAR
.EXTRN ANLOBS_BADSYMLEN
.EXTRN ANLOBS_EXEBADFIXUPEND
.EXTRN ANLOBS_EXEBADFIXUPISD
.EXTRN ANLOBS_EXEBADFIXUPVBN
.EXTRN ANLOBS_EXEBADISDS1
.EXTRN ANLOBS_EXEBADISDTYPE
.EXTRN ANLOBS_EXEBADMATCH
.EXTRN ANLOBS_EXEBADPATCHLEN
.EXTRN ANLOBS_EXEBADOBJ
.EXTRN ANLOBS_EXEBADTYPE
.EXTRN ANLOBS_EXEBADXFERO
.EXTRN ANLOBS_EXEHDRISDLONG
.EXTRN ANLOBS_EXEHDRLONG
.EXTRN ANLOBS_EXEISDLENDZRO
.EXTRN ANLOBS_EXEISDLENGBL
.EXTRN ANLOBS_EXEISDLENPRIV
.EXTRN ANLOBS_EXENOTNATIVE
.EXTRN ANLOBS_EXTRABYTES
.EXTRN ANLOBS_FIELDFIT
.EXTRN ANLOBS_FLAGERROR
.EXTRN ANLOBS_NOTOK, ANLOBS_OBJBADIDCMATCH
.EXTRN ANLOBS_OBJBADNUM
.EXTRN ANLOBS_OBJBADPOP
.EXTRN ANLOBS_OBJBADPUSH
.EXTRN ANLOBS_OBJBADTYPE
.EXTRN ANLOBS_OBJBADVIELD
.EXTRN ANLOBS_OBJEOMBADSEV
.EXTRN ANLOBS_OBJEOMMISSING
.EXTRN ANLOBS_OBJFADBADAVC
.EXTRN ANLOBS_OBJFADBADRBC
.EXTRN ANLOBS_OBJGSDBADALIGN
.EXTRN ANLOBS_OBJGSDBADSUBTYP
.EXTRN ANLOBS_OBJHDRRES
.EXTRN ANLOBS_OBJMHDBADRECSIZ
.EXTRN ANLOBS_OBJMHDBADSTRLVL
.EXTRN ANLOBS_OBJMHDMISSING
.EXTRN ANLOBS_OBJNONTIRCMD
.EXTRN ANLOBS_OBJNOPSC
.EXTRN ANLOBS_OBJNULLREC
.EXTRN ANLOBS_OBJPOSPACE
.EXTRN ANLOBS_OBJPROMINMAX
.EXTRN ANLOBS_OBJPSCABSLEN
```

				OFFC 00000			
	5B	0000G	CF	9E	00002		
	5A	00000000G	8F	DD	00007		
	59	0000G	CF	9E	0000E		
	58	0000G	CF	9E	00013		
	5E		1B	C2	00018		
0000G	CF		00	FB	0001B		
		00000000G	8F	DD	00020		
			7E	7C	00026		
	68		03	FB	00028		
	7E		01	CE	0002B		
	69		01	FB	0002E		
	7E		01	CE	00031		
	69		01	FB	00034		
	52	08	AC	DD	00037		
			10	12	0003B		
		00000000G	8F	DD	0003D		
			01	DD	00043		
			7E	D4	00045		
	68		03	FB	00047		
		0C	02CB	31	0004A	1\$:	
			AC	DD	0004D		
			52	DD	00050		
0000G	CF		02	FB	00052		
	53		50	DD	00057		
			13	12	0005A		
			52	DD	0005C		
		0C	AC	DD	0005E		
		00000000G	8F	DD	00061		
0000G	CF		03	FB	00067		
			02AD	31	0006C	2\$:	
52	52		09	7B	0006F	3\$:	
57	52		53	C1	00073		
		00000000G	8F	DD	00077		
			01	DD	0007D		
			03	DD	0007F		
	68		03	FB	00081		

.EXTRN	ANLOBS_OBJRECTOOBIG	
.EXTRN	ANLOBS_OBJTIRRES	
.EXTRN	ANLOBS_OBJUNDEFENV	
.EXTRN	ANLOBS_OBJUNDEFLIT	
.EXTRN	ANLOBS_OBJUNDEFPS	
.EXTRN	ANALYZES FACILITY	
.EXTRN	ANLSCHECK_FLAGS	
.EXTRN	ANLSCHECK_SYMBOL	
.EXTRN	ANLSFORMAT_ERROR	
.EXTRN	ANLSFORMAT_FLAGS	
.EXTRN	ANLSFORMAT_LINE	
.EXTRN	ANLSFORMAT_PROTECTION	
.EXTRN	ANLSINTERACT, ANLSMAP_FIXUP_SECTION	
.EXTRN	ANLSREPORT_PAGE	
.EXTRN	ANLSREPORT_LINE	
.EXTRN	ANLSGB_INTERACTIVE	
.PSECT	SCODES, NOWRT, 2	
.ENTRY	ANLSIMAGE_FIXUP_INFO, Save R2,R3,R4,R5,R6,-	0557
	R7,R8,R9,R10,R11	
MOVAB	ANLSGB_INTERACTIVE, R11	
MOVL	#ANLOBS_EXEBADFIXUPEND, R10	
MOVAB	ANLSREPORT_LINE, R9	
MOVAB	ANLSFORMAT_LINE, R8	
SUBL2	#24, SP	
CALLS	#0, ANLSREPORT_PAGE	0574
PUSHL	#ANLOBS_EXEFIXUP	0575
CLRQ	-(SP)	
CALLS	#3, ANLSFORMAT_LINE	
MNEGL	#1, -(SP)	0576
CALLS	#1, ANLSREPORT_LINE	
MNEGL	#1, -(SP)	0577
CALLS	#1, ANLSREPORT_LINE	
MOVL	FIXUP_SIZE, R2	0582
BNEQ	1\$	
PUSHL	#ANLOBS_EXEFIXUPNONE	0583
PUSHL	#1	
CLRL	-(SP)	
CALLS	#3, ANLSFORMAT_LINE	
BRW	35\$	0584
PUSHL	FIXUP_VBN	0590
PUSHL	R2	
CALLS	#2, ANLSMAP_FIXUP_SECTION	
MOVL	R0, FP	
BNEQ	3\$	0591
PUSHL	R2	0592
PUSHL	FIXUP_VBN	
PUSHL	#ANLOBS_EXEBADFIXUPVBN	
CALLS	#3, ANLSFORMAT_ERROR	
BRW	36\$	0591
ASHL	#9, R2, R2	0598
ADDL3	FP, R2, END_PTR	
PUSHL	#ANLOBS_EXEFIXFIXED	0604
PUSHL	#1	
PUSHL	#3	
CALLS	#3, ANLSFORMAT_LINE	

7E		01	CE	00084	MNEGL	#1, -(SP)	0605
69		01	FB	00087	CALLS	#1, ANLSREPORT_LINE	
	0000'	CF	9F	0008A	PUSHAB	FLAGS_DEF	0606
7E	0A	A3	3C	0008E	MOVZWL	10(FPT), -(SP)	
	00000000G	8F	DD	00092	PUSHL	#ANLOBS_EXEFIXFLAGS	
		02	DD	00098	PUSHL	#2	
0000G	CF	04	FB	0009A	CALLS	#4, ANLSFORMAT_FLAGS	
	0000'	CF	9F	0009F	PUSHAB	FLAGS_DEF	0607
7E	0A	A3	3C	000A3	MOVZWL	10(FPT), -(SP)	
0000G	CF	02	FB	000A7	CALLS	#2, ANLSCHECK_FLAGS	
	1C	A3	DD	000AC	PUSHL	28(FP)	0608
	00000000G	8F	DD	000AF	PUSHL	#ANLOBS_EXEFIXCOUNT	
		02	DD	000B5	PUSHL	#2	
		7E	D4	000B7	CLRL	-(SP)	
68		04	FB	000B9	CALLS	#4, ANLSFORMAT_LINE	
	20	A3	DD	000BC	PUSHL	32(FP)	0609
	00000000G	8F	DD	000BF	PUSHL	#ANLOBS_EXEFIXEXTRA	
		02	DD	000C5	PUSHL	#2	
		7E	D4	000C7	CLRL	-(SP)	
68		04	FB	000C9	CALLS	#4, ANLSFORMAT_LINE	
08		6B	E9	000CC	BLBC	ANLSGB_INTERACTIVE, 4\$	0613
0000G	CF	00	FB	000CF	CALLS	#0, ANLSINTERACT	0614
95		50	E9	000D4	BLBC	R0, 2\$	
7E		01	CE	000D7	MNEGL	#1, -(SP)	0620
69		01	FB	000DA	CALLS	#1, ANLSREPORT_LINE	
	00000000G	8F	DD	000DD	PUSHL	#ANLOBS_EXEFIXLIST	0621
		01	DD	000E3	PUSHL	#1	
		03	DD	000E5	PUSHL	#3	
68		03	FB	000E7	CALLS	#3, ANLSFORMAT_LINE	
7E		01	CE	000EA	MNEGL	#1, -(SP)	0622
69		01	FB	000ED	CALLS	#1, ANLSREPORT_LINE	
54	53	A3	C1	000F0	ADDL3	24(FP), FP, SP	0624
	18	A4	95	000F5	TSTB	16(SP)	0631
	10	06	13	000F8	BEQL	5\$	
		A4	9A	000FA	MOVZBL	16(SP), CELL_SIZE	0633
	10	03	11	000FE	BRB	6\$	
		38	D0	00100	MOVL	#56, CELL_SIZE	0635
56	55	01	C3	00103	SUBL3	#1, 28(FPT), R6	0637
	1C	52	D4	00108	CLRL	I	0648
		3F	11	0010A	BRB	10\$	
		52	D5	0010C	TSTL	I	0641
		11	12	0010E	BNEQ	8\$	
		52	DD	00110	PUSHL	I	0642
	00000000G	8F	DD	00112	PUSHL	#ANLOBS_EXEFIXNAME0	
		02	DD	00118	PUSHL	#2	
		7E	D4	0011A	CLRL	-(SP)	
68		04	FB	0011C	CALLS	#4, ANLSFORMAT_LINE	
		25	11	0011F	BRB	9\$	
	18	A4	9F	00121	PUSHAB	24(SP)	0644
		52	DD	00124	PUSHL	I	
	00000000G	8F	DD	00126	PUSHL	#ANLOBS_EXEFIXNAME	
		02	DD	0012C	PUSHL	#2	
		7E	D4	0012E	CLRL	-(SP)	
		05	FB	00130	CALLS	#5, ANLSFORMAT_LINE	
68		A4	9A	00133	MOVZBL	24(SP), NAME_DSC	0645
04	6E	18	A4	9E	MOVAB	25(R4), NAME_DSC+4	
	AE	19	27	DD	PUSHL	#39	0646

		04	AE	9F	0013E	PUSHAB	NAME DSC		
0000G	CF		02	FB	00141	CALLS	#2, ANLS\$CHECK_SYMBOL		
	54		55	C0	00146	ADDL2	CELL_SIZE, SP	0648	
			52	D6	00149	INCL	1	0637	
	56		52	D1	0014B	CMPL	1, R6		
			BC	1B	0014E	BLEQU	7\$		
	0B		6B	E9	00150	BLBC	ANLS\$GB_INTERACTIVE, 11\$	0654	
0000G	CF		00	FB	00153	CALLS	#0, ANLS\$INTERACT	0655	
	03		50	E8	00158	BLBS	R0, 11\$		
		01BE	31	0015B	BRW	36\$			
		OC	A3	D5	0015E	TSTL	12(FP)	0662	
			03	12	00161	BNEQ	12\$		
		009B	31	00163	BRW	20\$			
	7E		01	CE	00166	MNEGL	#1, -(SP)	0664	
	69		01	FB	00169	CALLS	#1, ANLS\$REPORT_LINE		
		00000000G	8F	DD	0016C	PUSHL	#ANLOBJ\$_EXEFIXG	0665	
			01	DD	00172	PUSHL	#1		
			03	DD	00174	PUSHL	#3		
54	68		03	FB	00176	CALLS	#3, ANLS\$FORMAT_LINE		
	53	OC	A3	C1	00179	ADDL3	12(FP), FP, SP	0666	
			64	D5	0017E	TSTL	(SP)	0670	
			71	13	00180	BEQL	19\$		
	57		54	D1	00182	CMPL	SP, END_PTR	0675	
			09	1F	00185	BLSSU	14\$		
			5A	DD	00187	PUSHL	R10	0676	
0000G	CF		01	FB	00189	CALLS	#1, ANLS\$FORMAT_ERROR		
			63	11	0018E	BRB	19\$	0675	
	52		84	D0	00190	MOVL	(SP)+, COUNT	0682	
	7E		01	CE	00193	MNEGL	#1, -(SP)	0684	
	69		01	FB	00196	CALLS	#1, ANLS\$REPORT_LINE		
			64	DD	00199	PUSHL	(SP)	0685	
		00000000G	52	DD	0019B	PUSHL	COUNT		
			8F	DD	0019D	PUSHL	#ANLOBJ\$_EXEFIXGIMAGE		
			02	DD	001A3	PUSHL	#2		
			02	DD	001A5	PUSHL	#2		
	68		05	FB	001A7	CALLS	#5, ANLS\$FORMAT_LINE		
	54		04	C0	001AA	ADDL2	#4, SP	0686	
	56	FF	A2	9E	001AD	MOVAB	-1(R2), R6	0690	
			55	D4	001B1	CLRL	1		
			37	11	001B3	BRB	18\$		
7E			01	7A	001B5	EMUL	#1, 1, #0, -(SP)	0691	
50			04	7B	001BA	EDIV	#4, (SP)+, R0, R0		
	0B	AE40	84	D0	001BF	MOVL	(SP)+, LONG_ARRAY[R0]		
			50	D1	001C4	CMPL	R0, #3	0694	
			05	13	001C7	BEQL	16\$		
	56		55	D1	001C9	CMPL	1, R6		
			1C	12	001CC	BNEQ	17\$		
		14	AE	DD	001CE	PUSHL	LONG_ARRAY+12	0696	
		14	AE	DD	001D1	PUSHL	LONG_ARRAY+8		
		14	AE	DD	001D4	PUSHL	LONG_ARRAY+4		
		14	AE	DD	001D7	PUSHL	LONG_ARRAY		
		01	A0	9F	001DA	PUSHAB	1(R0)	0695	
		00000000G	8F	DD	001DD	PUSHL	#ANLOBJ\$_EXEFIXGLINE		
			03	DD	001E3	PUSHL	#3		
			7E	D4	001E5	CLRL	-(SP)		
	68		08	FB	001E7	CALLS	#8, ANLS\$FORMAT_LINE		
			55	D6	001EA	INCL	1	0690	

	56		55	D1	001EC	18\$:	CMPL	I, R6		
			C4	1B	001EF		BLEQU	15\$		
			8B	11	001F1		BRB	13\$		0670
	0B		6B	E9	001F3	19\$:	BLBC	ANLSGB INTERACTIVE, 20\$		0703
0000G	CF		00	FB	001F6		CALLS	#0, ANLSINTERACT		0704
	03		50	E8	001FB		BLBS	R0, 20\$		
			011B	31	001FE		BRW	36\$		
		10	A3	D5	00201	20\$:	TSTL	16(FP)		0711
			03	12	00204		BNEQ	21\$		
			009B	31	00206		BRW	29\$		
	7E		01	CE	00209	21\$:	MNEGL	#1, -(SP)		0716
	69		01	FB	0020C		CALLS	#1, ANLSREPORT_LINE		
		04	AC	DD	0020F		PUSHL	IMAGE BASE		0717
		00000000G	8F	DD	00212		PUSHL	#ANLOBJ\$_EXEFIXA		
			01	DD	00218		PUSHL	#1		
			03	DD	0021A		PUSHL	#3		
54	68		04	FB	0021C		CALLS	#4, ANLSFORMAT_LINE		
	53	10	A3	C1	0021F		ADDL3	16(FP), FP, SP		0718
			64	D5	00224	22\$:	TSTL	(SP)		0722
			71	13	00226		BEQL	28\$		
	57		54	D1	00228		CMPL	SP, END_PTR		0727
			09	1F	0022B		BLSSU	23\$		
			5A	DD	0022D		PUSHL	R10		0728
0000G	CF		01	FB	0022F		CALLS	#1, ANLSFORMAT_ERROR		
			63	11	00234		BRB	28\$		0727
	52		84	D0	00236	23\$:	MOVL	(SP)+, COUNT		0734
	7E		01	CE	00239		MNEGL	#1, -(SP)		0736
	69		01	FB	0023C		CALLS	#1, ANLSREPORT_LINE		
			64	DD	0023F		PUSHL	(SP)		0737
			52	DD	00241		PUSHL	COUNT		
		00000000G	8F	DD	00243		PUSHL	#ANLOBJ\$_EXEFIXAIMAGE		
			02	DD	00249		PUSHL	#2		
			02	DD	0024B		PUSHL	#2		
	68		05	FB	0024D		CALLS	#5, ANLSFORMAT_LINE		
	54		04	C0	00250		ADDL2	#4, SP		0738
	56	FF	A2	9E	00253		MOVAB	-1(R2), R6		0742
			55	D4	00257		CLRL	I		
			37	11	00259		BRB	27\$		
7E			01	7A	0025B	24\$:	EMUL	#1, I, #0, -(SP)		0743
50			04	7B	00260		EDIV	#4, (SP)+, R0, R0		
	08	AE40	84	D0	00265		MOVL	(SP)+, LONG_ARRAY[R0]		
			50	D1	0026A		CMPL	R0, #3		0746
			05	13	0026D		BEQL	25\$		
	56		55	D1	0026F		CMPL	I, R6		
			1C	12	00272		BNEQ	26\$		
		14	AE	DD	00274	25\$:	PUSHL	LONG_ARRAY+12		0748
		14	AE	DD	00277		PUSHL	LONG_ARRAY+8		
		14	AE	DD	0027A		PUSHL	LONG_ARRAY+4		
		14	AE	DD	0027D		PUSHL	LONG_ARRAY		
		01	A0	9F	00280		PUSHAB	1(R0)		0747
		00000000G	8F	DD	00283		PUSHL	#ANLOBJ\$_EXEFIXALINE		
			03	DD	00289		PUSHL	#3		
			7E	D4	0028B		CLRL	-(SP)		
	68		08	FB	0028D		CALLS	#8, ANLSFORMAT_LINE		
			55	D6	00290	26\$:	INCL	I		0742
	56		55	D1	00292	27\$:	CMPL	I, R6		
			C4	1B	00295		BLEQU	24\$		

EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info
ANL\$IMAGE_FIXUP_INFO - Analyze Fixup Info

H 14
15-Sep-1984 23:47:03
14-Sep-1984 11:52:43

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]EXEFIXUP.B32;1

Page 18
(8)

			8B	11	00297		BRB	22\$:	0722
			6B	E9	00299	28\$:	BLBC	ANL\$GB_INTERACTIVE, 29\$:	0755
			00	FB	0029C		CALLS	#0, ANL\$INTERACT	:	0756
			50	E9	002A1		BLBC	R0, 36\$:	
		14	A3	D5	002A4	29\$:	TSTL	20(FP)	:	0763
			6A	13	002A7		BEQL	34\$:	
			01	CE	002A9		MNEGL	#1, -(SP)	:	0768
			01	FB	002AC		CALLS	#1, ANL\$REPORT_LINE	:	
		04	AC	DD	002AF		PUSHL	IMAGE_BASE	:	0769
		00000000G	8F	DD	002B2		PUSHL	#ANLOBJ\$_EXEFIXP	:	
			01	DD	002B8		PUSHL	#1	:	
			03	DD	002BA		PUSHL	#3	:	
			04	FB	002BC		CALLS	#4, ANL\$FORMAT_LINE	:	
54		14	A3	C1	002BF		ADDL3	20(FP), FP, SP	:	0770
			84	D0	002C4		MOVL	(SP)+, COUNT	:	0771
			01	D0	002C7		MOVL	#1, 1	:	0781
			37	11	002CA		BRB	32\$:	
			54	D1	002CC	30\$:	CMPL	SP, END_PTR	:	
			09	1F	002CF		BLSSU	31\$:	
			5A	DD	002D1		PUSHL	R10	:	0782
			01	FB	002D3		CALLS	#1, ANL\$FORMAT_ERROR	:	
			2E	11	002D8		BRB	33\$:	0781
			01	CE	002DA	31\$:	MNEGL	#1, -(SP)	:	0788
			01	FB	002DD		CALLS	#1, ANL\$REPORT_LINE	:	
		04	A4	3C	002E0		MOVZWL	4(SP), -(SP)	:	0789
			64	DD	002E4		PUSHL	(SP)	:	
		00000000G	8F	DD	002E6		PUSHL	#ANLOBJ\$_EXEFIXPSECT	:	
			02	DD	002EC		PUSHL	#2	:	
			02	DD	002EE		PUSHL	#2	:	
			05	FB	002F0		CALLS	#5, ANL\$FORMAT_LINE	:	
		06	A4	3C	002F3		MOVZWL	6(SP), -(SP)	:	0790
			02	DD	002F7		PUSHL	#2	:	
			02	FB	002F9		CALLS	#2, ANL\$FORMAT_PROTECTION	:	
			08	C0	002FE		ADDL2	#8, SP	:	0794
			55	D6	00301		INCL	1	:	0776
			55	D1	00303	32\$:	CMPL	1, COUNT	:	
			C4	1B	00306		BLEQU	30\$:	
			6B	E9	00308	33\$:	BLBC	ANL\$GB_INTERACTIVE, 34\$:	0800
			00	FB	0030B		CALLS	#0, ANL\$INTERACT	:	0801
			50	E9	00310		BLBC	R0, 36\$:	
			00	FB	00313	34\$:	CALLS	#0, ANL\$MAP_FIXUP_SECTION	:	0806
			01	D0	00318	35\$:	MOVL	#1, R0	:	0808
				04	0031B		RET		:	
			50	D4	0031C	36\$:	CLRL	R0	:	0810
				04	0031E		RET		:	

: Routine Size: 799 bytes, Routine Base: \$CODE\$ + 0000

: 383 0811 1
: 384 0812 0 end eludom

EXEFIXUP
V04-000

EXEFIXUP - Analyze Fixup Info
ANL\$IMAGE_FIXUP_INFO - Analyze Fixup Info

I 14
15-Sep-1984 23:47:03
14-Sep-1984 11:52:43

VAX-11 Bliss-32 V4.0-742
[ANALYZ.SRC]EXEFIXUP.B32;1

Page 19
(8)

PSECT SUMMARY

Name	Bytes	Attributes
\$SPLITS	10	NOVEC,NOWRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)
\$OWNS	8	NOVEC, WRT, RD,NOEXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)
\$CODES	799	NOVEC,NOWRT, RD, EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	25	0	1000	00:01.7

: Information: 1
: Warnings: 0
: Errors: 0

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:EXEFIXUP/OBJ=OBJ\$:EXEFIXUP MSRC\$:EXEFIXUP/UPDATE=(ENH\$:EXEFIXUP)

: Size: 799 code + 18 data bytes
: Run Time: 00:17.0
: Elapsed Time: 01:03.9
: Lines/CPU Min: 2872
: Lexemes/CPU-Min: 13669
: Memory Used: 290 pages
: Compilation Complete

0005 AH-BT13A-SE
VAX/VMS V4.0

DIGITAL EQUIPMENT CORPORATION
CONFIDENTIAL AND PROPRIETARY